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मानक

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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 10939 (2000): Designation System for Tyre Tube Valves for Automotive Vehicles [TED 7: Automotive Tyres, Tubes and Rims]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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भारतीय मानक
स्वचल वाहनों के टायर ट्यूब वाल्वों के
लिए पदनाम प्रणाली
(पहला पुनरीक्षण)

Indian Standard

DESIGNATION SYSTEM FOR TYRE TUBE
VALVES FOR AUTOMOTIVE VEHICLES
(*First Revision*)

ICS 43 040 60, 83 160

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BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

FOREWORD

This Indian Standard (First Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Automotive Tyres, Tubes and Rims Sectional Committee had been approved by the Transport Engineering Division Council.

This standard was first published in 1984. In this revision an illustration has been incorporated for better understanding of the valve designation system and larger list of widely used valve designations have been added.

The valve designation system covered in this standard has been evolved for identifying the valves on their major functional as well as basic dimensional characteristics. The system has been developed with a view that it should help in easy identification of valve type and application and the designation should be such that it could be marked on the valve stem or base. This valve designation system has been used to designate valves in IS 9081 : 2000 'Valves and valve accessories for tyre tube valves for automotive vehicles (*third revision*)'.

A list of widely used valves with their valve designations along with old TR valve codes are given in Annex A.

AMENDMENT NO. 1 JUNE 2005
TO
IS 10939 : 2000 DESIGNATION SYSTEM
FOR TYRE TUBE VALVES FOR AUTOMOTIVE
VEHICLES

(First Revision)

(Page 1, clause 2.1.1) — Insert the following new character after 'E' and before 'L':

'F Tubeless type valve, rubber covered snap-in type, standard bore, external threading 8V1.'

(Page 2, clause 2.1.4) — Substitute the following for the existing clause:

'Shall represent the base diameter in code. For rubber base valves and rubber covered valves, it is the rubber base diameter and for screw-on or clamp-in type valves, it is the metal base diameter. The code shall be arrived in the same manner as explained in 2.1.2'.

(TED 7)

Reprography Unit. BIS. New Delhi, India

Indian Standard

DESIGNATION SYSTEM FOR TYRE TUBE VALVES FOR AUTOMOTIVE VEHICLES

(First Revision)

1 SCOPE

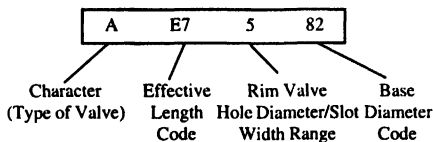
This standard specifies designation system for tyre tube valves used in the following types of automotive vehicles:

- a) Mopeds;
- b) Motorcycles;
- c) Scooters and scooter derivatives;
- d) Passenger cars;
- e) Light trucks;
- f) Trucks and buses;
- g) Agricultural tractors and trailers, and off-the-road vehicles;
- h) Industrial trucks; and
- j) Earthmoving machines.

2 DESIGNATION SYSTEM

2.1 A 6 character alpha-numeric code comprising of functional characteristics taken in the order of their importance. This has been explained by the illustration. The significance of characters shall be as given in 2.1.1 to 2.1.4.

Illustration



2.1.1 First Character

Shall denote the type of valve and shall be represented by an alphabet.

Character (Type of Valve)	Significance
A	Tube type valve, rubber based, standard bore, external threading 8 V1.
B	Tube type valve, rubber covered, standard bore, external threading 8 V1.
E	Tube type valve, screw-on type, large bore, external threading 12 V1.

Character (Type of Valve)	Significance
L	Tube type valve, spud, large bore, external threading 12 V1
M	Tube type valve, spud, large bore, external threading 17 V2
R	Tube or tubeless extension assembly, large bore, external threading 13 V1
S	Tube or tubeless valve, spud, large bore, external threading 17 V3.

2.1.2 Second and Third Characters

Shall represent the effective length of the valve in the straight condition (before bending), rounded off to the nearest millimetre in accordance with IS 2 : 1960 'Rules for rounding off numerical values (revised)', by a code as given below:

Effective Length	Code
Up to 99 mm	Actual length in millimetres
Above 99 mm	Alpha-numeric code as per 2.1.2.1

2.1.2.1 The effective lengths above 99 mm shall be codified as follows. However, in the code, the alphabets 'I', 'O' and 'X' shall not be used.

Effective Length (mm)	Code
100	A0
101	A1
102	A2
.	.
.	.
.	.
106	A6
109	A9
110	B0
.	.
.	.
.	.
115	B5
.	.
.	.
.	.
125	C5

<i>Effective Length (mm)</i>	<i>Code</i>	<i>Sl Type of Vehicle No.</i>	<i>Valve Hole Diameter/Slot Width Range (mm)</i>	<i>Code</i>
.	.			
.	.			
.	.			
165	G5	ii) Scooters and scooter derivatives	10 to 10.4	2
.	.	iii) Passenger cars	11.3 to 11.7	3
.	.	iv) Light trucks	12.7 to 13.5	4
.	.	v) Truck, bus, passenger cars, agricultural tractors, industrial tractors and small off-the-road vehicles	15.7 to 16.1	5
200	L0	vi) Large valves for off-the-road vehicles	19 to 22	6
.	.	vii) Tubeless applications off-the-road vehicles	20.5 to 21	7
.	.			
.	.			

2.1.3 *Fourth Character*

Shall represent the rim valve hole diameter or the rim valve slot width by the following code:

NOTE — codes '8' and '9' are for future development and code '0' (zero) shall not be used.

<i>Sl Type of Vehicle No.</i>	<i>Valve Hole Diameter/Slot Width Range (mm)</i>	<i>Code</i>
i) Scooters, moped and motor cycle	8.4 to 8.8	1

2.1.4 *Fifth and Sixth Characters*

Shall represent the base diameter in code. For rubber base valves, it is the rubber base diameter and for screw-on or clamp-in type valves, it is the metal base diameter. The code shall be arrived in the same manner as explained in 2.1.2.

ANNEX A

(Foreword)

LIST OF WIDELY USED VALVES WITH THEIR VALVE DESIGNATIONS

<i>Valve Designation</i>	<i>Old TR Valve Code</i>	<i>Valve Designation</i>	<i>Old TR Valve Code</i>
A 83 5 82	TR 274 A	B 35 3 57	TR 13
A 97 5 82	TR 75 A	B 35 4 57	TR 14
A A6 5 82	TR 76 A	B 35 5 57	TR 15
A B4 5 82	TR 177 A	B 49 5 57	TR 25
A D4 5 82	TR 175 A	E D4 6 32	TRJ 1175 A
A E7 5 82	TR 78 A	E 49 6 32	TRJ 1014
A G0 5 82	TR 179 A	R 79 6 09	TRJ 650
A 65 5 82	TR 227	R B9 6 09	TRJ 651
B 90 5 57	TR 150	R 41 6 09	TRJ 670
B 20 5 63	TR 218 A	L 06 6 84	TR SP 1000
B 30 5 63	TR 220 A	S 17 7 27	TR SP 2